INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000639

Α. (CLASSIFICATION OF SUBJECT MATTER								
Int. Cl. ⁷ :	G08B 17/10								
According to International Patent Classification (IPC) or to both national classification and IPC									
B I	B. FIELDS SEARCHED								
Minimum documentation searched (classification system followed by classification symbols)									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: time of flight, transmission time, waveform, signal, characteristic, feature, determine, sense or detect, flow, movement blockage, smoke, gas, aspirated and similar terms.									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category*	* Citation of document, with indication, where appropriate, of the relevant passages								
X	US 5388445 A (WALTERS et al.) 14 Februar Whole document	1-26							
x	US5150310 A (GREENSPUN et al.) 22 Septe Whole document	1-26							
X	Derwent Abstract Accession NO. 2002-33525 JP2002081986 A (SHIN COSMOS DENKI K	29, 30, 32 & 34-40							
X	EP1006500 A2 (PITTWAY CORPORATION Whole document	29, 30, 32 & 34-40							
Further documents are listed in the continuation of Box C X See patent family annex									
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken									
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family									
but later than the priority date claimed									
Date of the actual completion of the international search 10 August 2004 Date of mailing of the international search report 2 3 AUG 2004									
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 Authorized officer MICHAEL VALENTINE Telephone No: (02) 6283 2797									

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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)						
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:							
1.	Claims Nos.:						
<u> </u>	because they relate to subject matter not required to be searched by this Authority, namely:						
	•						
2.	Claims Nos.:						
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:						
, 							
3.	Claims Nos.:						
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)						
Вох №. П	I Observations where unity of invention is lacking (Continuation of item 3 of first sheet)						
consid 2. C consid	laims 1-28,31-33 & 40-45 are directed toward a method of determining time of flight of a signal. It is ered that "determining time of flight" represents a first special technical feature. laims 29-30 and 34-39 pertain to sensing rate of flow in the pipes of an aspirated smoke detector. It is ered that "sensing rate of flow in the pipes of an aspirated smoke detector" represents a second special cal feature.						
1. X	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.						
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.						
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:						
	•						
4.,	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:						
Kemark	The additional search fees were accompanied by the applicant's protest.						
	No protest accompanied the payment of additional search fees.						

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/000639

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member						•
US	5388445	JP	6129941	•				
US	5150310			-				
JР	2002081986	,						
EP	1006500	, JP	2000172964					

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX